



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ConTec NC-505  
**SYNONYMS:** Calcium Nitrite Solution

**SUPPLIER:** Innovative Concrete Technology, LLC  
 Two Wall Street  
 Oxford, New Jersey 07863

**NFPA Rating:** Health: 1 Flammability: 0 Reactivity: 0  
**HMIS Classification:** Health: 1 Flammability: 0 Reactivity: 0  
**Revision Date:** January 2011

**EMERGENCY TELEPHONE:      CHEMTREC: (800) 424-9300**  
**Outside USA - (703) 527-3887 collect calls accepted**

#### EMERGENCY OVERVIEW:

**Clear Straw Colored liquid. Odorless. May cause eye irritation.**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient / CAS No.	Weight %	OSHA - PEL's	ACGIH 2002 - TLV's
Calcium Nitrite / 13780-06-8	30 – 34	None Established.	None Established.
Calcium Nitrate / 10124-37-5	1 – 2	None Established.	None Established.
Water	Bal.	Not Applicable	Not Applicable

### 3. HAZARDS IDENTIFICATION

**Hazard Information:** May cause eye and skin irritation.

**Eye Contact:** Causes mild eye irritation. May cause severe irritation and blurred vision at elevated temperatures, which may be slow to heal.

**Inhalation:** Vapors are unlikely due to physical properties. Overexposure to mist may cause irritation to upper respiratory tract.

**Skin Contact:** Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation.

**Ingestion:** Single dose oral toxicity is believed to be low; swallowing larger amounts may cause injury.

**Aggravated Conditions:** None known.

**ACUTE OVEREXPOSURE:** Possible eye, skin and respiratory tract irritation.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If inhaled, remove to fresh air if effects occur.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Should any irritation persist, get medical attention.
<b>Eye Contact:</b>	Remove contact lenses. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Contact medical personal.
<b>Ingestion:</b>	Do not induce vomiting. If vomiting should occur spontaneously, keep the airway clear. Get medical attention. Never give anything by mouth to an unconscious person.
<b>Notes To Physician:</b>	None Specific. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

#### 5. FIRE FIGHTING MEASURES

<b>Flash Point (°F/°C)</b>	Not Applicable
<b>Flash Point Method:</b>	PMCC
<b>Auto ignition Temp. (°F):</b>	Not Applicable
<b>Flammable Limits in Air - Lower (%):</b>	Not Applicable
<b>Flammable Limits in Air - Upper (%):</b>	Not Applicable
<b>Extinguishing Media:</b>	Non-combustible.
<b>Fire Fighting Procedures:</b>	Keep unnecessary people away; isolate hazard area.
<b>Special Exposure Hazards:</b>	Calcium Nitrite was tested according ti UN 34.42 and determined not to be an oxidizer.
<b>Special Protective Equipment:</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Procedure for Cleaning/Absorption:</b>	Stop leaks. Clean up spill immediately. Clean up large spills with vacuum truck. Soak up small spills with absorbent material. Spills of solution are extremely
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slippery so all residue must be removed promptly. Wear adequate personal protective clothing and equipment (Section 8).

## 7. HANDLING AND STORAGE

<b>PRECAUTIONARY STATEMENTS:</b>	<b>CAUTION!</b>
<b>Handling:</b>	May cause irritation. Avoid contact with eyes, skin and clothing. Avoid breathing mist or spray. Wear chemical splash goggles, gloves and protective clothing when handling. Use with adequate ventilation and employ respiratory protection where mist or spray may be generated. Wash thoroughly after handling.
<b>Storage:</b>	For industrial use only. Do not dry this material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls:</b>	Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.
<b>Respiratory Protection:</b>	When exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.
<b>Gloves:</b>	Appropriate chemical resistant gloves should be worn.
<b>Skin Protection:</b>	Normal work coveralls.
<b>Eye Protection:</b>	Chemical goggles or a face shield if splashing hazard exists.
<b>Other Personal Protection Data:</b>	Eyewash fountains and safety showers should be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	LIQUID
<b>Color:</b>	CLEAR TO STRAW COLOR
<b>Odor:</b>	SLIGHT SWEET ODOR
<b>pH:</b>	Not Determined
<b>Specific Gravity (Water=1):</b>	1.20 – 1.30
<b>Density @ 20° C:</b>	10.9 lbs/gal
<b>Boiling Point (°F/°C):</b>	226°F / 108°C
<b>Melting Point Range (°F/°C):</b>	Not Applicable
<b>Freezing Point/Range (°F/°C):</b>	Not Applicable
<b>Vapor Pressure:</b>	15 mmHg @ 25C, 77F
<b>Vapor Density (Air=1):</b>	SAME AS WATER
<b>Evaporation Rate (BuAc=1):</b>	0.16
<b>Solubility in Water Description:</b>	COMPLETELY MISCIBLE
<b>VOCs (lbs/gallon):</b>	Not Determined
<b>Viscosity, Dynamic (Centipoise) @ 20° C:</b>	Not Determined
<b>Molecular Weight:</b>	Not Determined

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of handling, use and transportation.
<b>Conditions to Avoid:</b>	See Additional Guidelines section below.
<b>Materials to Avoid:</b>	Not Applicable.
<b>Hazardous Decomposition Products:</b>	Not Applicable.
<b>Hazardous Polymerization:</b>	Will Not Occur.
<b>Additional Guidelines:</b>	Avoid contact with acids, ammonium salts, activated carbon, reducing agents, and cyanides.

## 11. TOXICOLOGICAL INFORMATION

**PRINCIPAL ROUTES OF EXPOSURE:** Skin, eyes and respiratory tract.  
**Ingestion:** Considered slightly toxic to practically non-toxic.  
**Skin Contact:** Possible mild transient skin irritation on prolonged contact.  
**Inhalation:** Not considered hazardous under normal conditions of use. Overexposure to mist or spray may cause irritation of respiratory tract.  
**Eye Contact:** Causes mild eye irritation.

### Carcinogenicity Status

(Chemical Name, Wt. %, CAS No.)

<b>IARC Group 1, Group 2A or Group 2B Carcinogen:</b>	Not Listed
<b>National Toxicology Program Known or Suspect Carcinogen:</b>	Not Listed
<b>ACGIH Confirmed or Suspected Carcinogen:</b>	Not Listed
<b>OSHA Select or Possible Select Carcinogen:</b>	Not Listed

<b>Acute Oral LD50 (mg/kg):</b>	Not Determined
<b>Acute Dermal LD50 (mg/kg):</b>	Not Determined
<b>Acute Inhalation LC50 (mg/l):</b>	Not Determined
<b>Mutagenicity/Genotoxicity:</b>	Not Determined
<b>Other Information:</b>	Some conclusions are drawn from sources other than direct testing.

## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	Not Determined
<b>Persistence:</b>	Not Determined
<b>Bioaccumulative:</b>	Biodegradation is not applicable.
<b>Ecotoxicological Information:</b>	
<b>Acute Fish Toxicity:</b>	Material is practically non-toxic to fish on an acute basis (LC50 greater than 100 mg/L).
<b>Acute Crustaceans Toxicity:</b>	Not Determined
<b>Acute Algae Toxicity:</b>	Not Determined
<b>Chemical Fate Information:</b>	Not Determined
<b>Other Information:</b>	No other ecological studies are known on this product.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Disposal Method:**

Dispose of product in an approved industrial waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

### **RCRA**

<b>Is the unused product a RCRA hazardous waste if discarded? (Yes/No)</b>	<b>No</b>
<b>If yes, the EPA Hazardous Waste Code is:</b>	<b>N/A</b>

## 14. TRANSPORTATION INFORMATION

**DOT:**  
**DOT Status:** NOT HAZARDOUS. NOT REGULATED.

**ICAO/IATA:**  
**Status:** NOT REGULATED.

**IMDG:**  
**Status:** NOT REGULATED.  
**Flash Point (°F/°C)** Not Applicable

## 15. REGULATORY INFORMATION

### International Inventories:

<b>USA TSCA Inventory Status:</b>	All of the components of this product are listed on the US EPA TSCA Inventory, or exempt from listing.
<b>Canadian DSL:</b>	All of the components of this product are listed on the Canadian Domestic Substances List.
<b>Canadian NDSL:</b>	Some of the components of this product are not found on the Canadian Non-Domestic Substances List.
<b>European - EINECS:</b>	All of the components of this product are listed on EINECS, or exempt from notification.
<b>European - ELINCS.</b>	All of the components of this product are not listed on ELINCS.
<b>EU - No-Longer Polymers List:</b>	None of the components of this product are listed on the EUNLP.
<b>Japanese Chemical Inventory:</b>	All of the components of this product are not listed on the JPENCS Inventory.
<b>Philippines Chemical Inventory:</b>	All of the components of this product are found on the Philippines Inventory.
<b>Australian Chemical Inventory:</b>	All of the components of this product are listed on the Australian Chemical Inventory.
<b>Korean Chemical Inventory:</b>	All of the components of this product are found on the Korean Existing Chemical Substances List.

### State and Federal Regulations: (Chemical Name, Wt. %, CAS No.)

<b>New Jersey Trade Secret Registry Number(s):</b>	N/A
<b>SARA Section 311/ 312 Hazard Class:</b>	This product is classified as a SARA IMMEDIATE HEALTH HAZARD.
<b><u>Other Information:</u></b>	This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372).

## 16. OTHER INFORMATION

<b>Reference Number:</b>	0505
<b>Additional Information:</b>	None.
<b>Important Note:</b>	The information herein is given in good faith but no warranty, expressed or implied, is made.

\*\*\*END OF MSDS\*\*\*